

ABSTRACT OF THE INVENTION

The present invention relates to a system and methodology facilitating automation security in a networked-based industrial controller environment. Various components, systems and methodologies are provided to facilitate varying levels of automation security depending on considerations of system performance while promoting security in accordance with one or more security protocols. The security protocols can include protocol extensions that are adapted to factory networks. Dynamic security operations are provided that include altering security patterns or interfaces based on such factors as performance, time, and the nature of network communications. The security protocols can also include integrity mechanisms, encryption mechanisms, session management protocols, intrusion detection components, and wireless considerations.